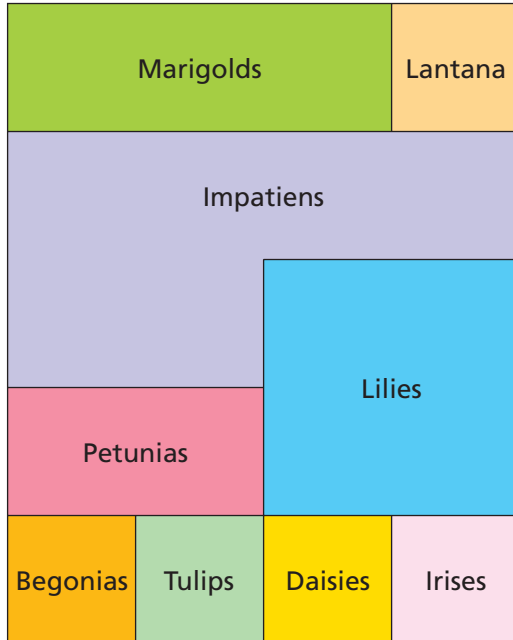


Applications

1. The Langstons planted a big garden with flowers to sell to florists.



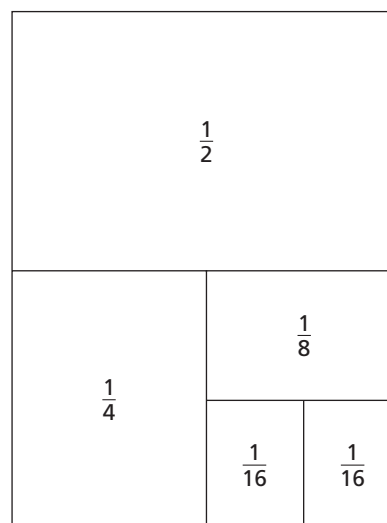
- What fraction of the garden is planted with each type of flower?
- How much more of the garden is planted with lilies than daisies?
- Suppose the Langstons replace the daisies and irises with lilies. What fraction of the garden would be planted with lilies?
- Use fractions to explain whether the following sentence is correct or incorrect.
The plots used for growing marigolds and petunias are equivalent to the plot used to grow impatiens.
- Use fractions to explain whether the following sentence is correct or incorrect.
$$\text{Marigolds} - \text{Begonias} = \text{Petunias} + \text{Tulips}$$
- Look at the original garden plan. Find three different combinations of plots that total the fraction of the garden planted with impatiens. Write a number sentence for each combination.

2. A local magazine sells space for ads. It charges advertisers according to the fraction of a page each ad fills.

- a. Advertisers purchase $\frac{1}{8}$ and $\frac{1}{16}$ of a page. What fraction of the page is used for ads?
- b. What fraction of the page remains for other uses? Explain.

3. The Cool Sub Shop is having its grand opening. The owner buys three $\frac{1}{4}$ -page ads, four $\frac{1}{8}$ -page ads, and ten $\frac{1}{16}$ -page ads. What is the total amount of ad space that the owner buys?

Sample Magazine Page



4. A local concert promoter purchases $2\frac{3}{4}$ pages of ads. When one of the concerts is cancelled, the promoter cancels $1\frac{5}{8}$ pages of ads. How much advertising space is the concert promoter actually using?
5. Rico and his friend eat part of a pan of lasagna. Rico eats $\frac{1}{16}$ of the lasagna, and his friend eats $\frac{1}{32}$ of the lasagna. How much of the lasagna is left?
6. Suppose you eat $\frac{3}{4}$ of a pizza and then eat $\frac{1}{8}$ of another pizza of the same size. How much of a whole pizza do you eat altogether?

For Exercises 7–12, find each sum or difference.

7. $8\frac{11}{12} - 2\frac{3}{4}$ 8. $4\frac{4}{9} + 1\frac{2}{9}$ 9. $2\frac{1}{8} + 3\frac{3}{4} + 1\frac{1}{2}$
10. $2\frac{7}{9} + 6\frac{1}{3}$ 11. $11\frac{1}{2} - 2\frac{2}{3}$ 12. $1\frac{2}{5} + 1\frac{1}{3}$
13. Find each sum. Describe any patterns that you see.
- a. $\frac{1}{2} + \frac{1}{3}$ b. $\frac{2}{4} + \frac{2}{6}$ c. $\frac{6}{12} + \frac{4}{12}$

For Exercises 14–17, determine which sum or difference is greater. Show your work.

14. $\frac{2}{3} + \frac{5}{6}$ or $\frac{3}{4} + \frac{4}{5}$ 15. $\frac{7}{6} - \frac{2}{3}$ or $\frac{3}{5} - \frac{5}{10}$
16. $\frac{1}{4} + \frac{5}{6}$ or $\frac{1}{5} + \frac{7}{8}$ 17. $\frac{1}{16} + \frac{1}{12}$ or $\frac{5}{4} - \frac{4}{5}$

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